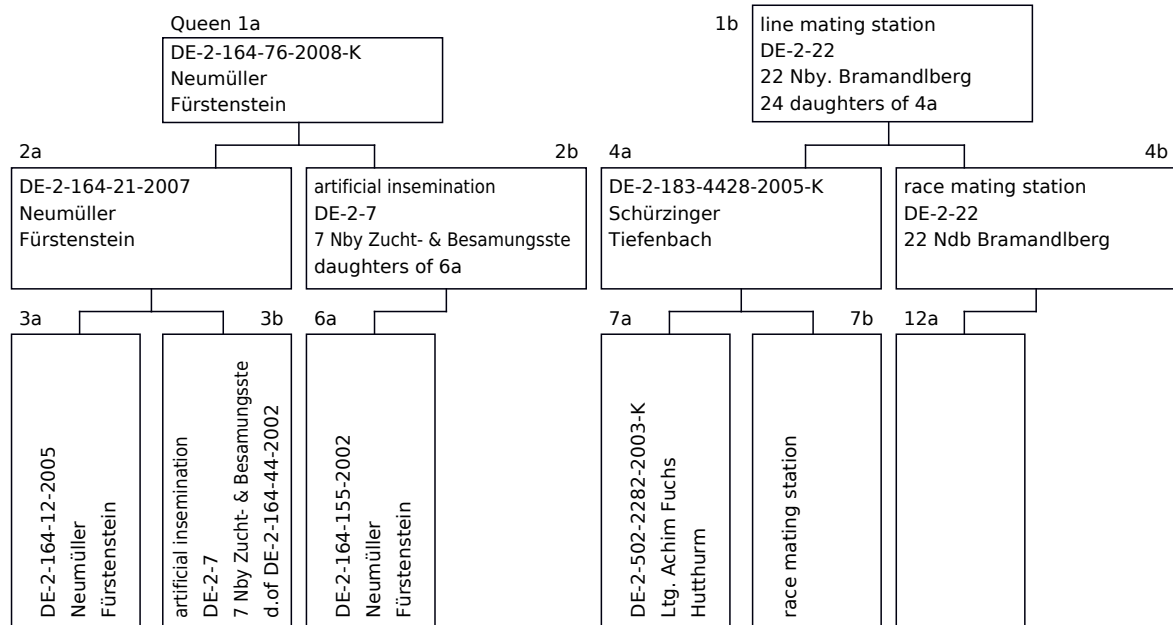


Tester of the queen: Ltg. Achim Fuchs, Prüfhof Kringell, 94116 Hutthurm, DE-2-502, Apiary 2  
 Breeder of the queen: Neumüller, Walter, 94538 Fürstenstein, DE-2-164  
**1a** Studbook number: **DE-2-164-76-2008-K**

Race line: -1 Sign: red 37 Daughters of Queen: 0%  
 Generation: 1 Hatch date: 13.05.2008 Workers: 0.5%

### A. Pedigree



### B. Own performance

Performance test year	No. of the colony Volk 2321			comparable colonies at the apiary	
	kg	%	Ranking	number	Yield average kg
	57.8	149.8	5	58	38.6
	Assessment*	Breeding values			Reliability
<b>Total breeding value<sup>1</sup></b>	-	112			
Honey yield	-	114			0.46
Defensive behavior	3.70	109			0.67
Steadiness on comb	3.40	109			0.69
Swarming drive	4	104			0.45
Varroa	-	109			0.55
Performance index	-	0			
Robustness in winter	4		70%	100%	170%
Development in Spring	4				
Colony strength	4				

<sup>1</sup>In accordance with the resolution of the breeder convention of 9th April 2011, for the total breeding value, Varroa tolerance is weighted by 40% and honey yield, gentleness, calmness during inspection, and swarming tendency are each weighted by 15%.

### C. Performance of the sisters

See page 2

### D. Body features, see appendix

See attached characteristic documents:

### E. Results

#### Class Av

Selected for Varroa tolerance. Suitable for breeding with no restrictions; suitable for use as a 4a colony at frequently visited mating stations.

# Breeding selection report DE-2-164-76-2008-K

## Page 2

### Performance of the sisters

Amount of checked sisters: 24

Studbook number	Tester of the queen	Apiary	Total breeding value	Yield kg	Breeding Value Honey	Defensive behavior	Breeding Value Defensive Behavior	Calmness during inspection	Breeding Value Calmness	Swarming drive	Breeding Value Swarming	Varroa-index	Performance index
DE-2-164-242-2009-K	DE-2-164	1	116		110		103		104		88	(111)	
DE-2-164-243-2009-K	DE-2-164	1	100		99		103		104		88	(102)	
DE-2-164-95-2009	DE-2-164	2	99		105		95		95		97	(100)	
DE-2-164-96-2009	DE-2-164	2	99		106		95		95		97	(101)	
DE-2-164-15-2008	DE-2-164	1	101		103		99		99		98	(104)	
DE-2-164-16-2008	DE-2-164	1	104		107		105		106		88	(105)	
DE-2-164-190-2008	DE-2-164	2	110		107		111		112		102	(107)	
DE-2-164-208-2008	DE-2-164	2	109		105		111		111		102	(107)	
DE-2-164-209-2008	DE-2-164	2	108		103		111		111		101	(106)	
DE-2-164-211-2008	DE-2-164	2	101		98		103		103		86	(106)	
DE-2-164-79-2008-K	DE-2-501	1	109		110		116		117		109	98	
DE-2-164-80-2008-K	DE-2-501	1	112		115		112		113		108	105	
DE-2-164-81-2008	DE-2-501	1	88		94		102		105		89	81	
DE-2-164-83-2008-K	DE-2-501	1	94		100		94		95		98	92	
DE-2-164-74-2008-K	DE-2-502	2	104	45.4	107	3.5	104	3.4	105	4	101	102	
DE-2-164-75-2008	DE-2-502	2	100	7	86	3.5	96	3	95	3	77	117*	
DE-2-164-76-2008-K	DE-2-502	2	112	57.8	114	3.7	109	3.4	109	4	104	109	
DE-2-164-77-2008-K	DE-2-502	2	112	47.8	109	3.5	104	3.4	103	4	97	117	
DE-2-164-78-2008-K	DE-2-502	2	111	40.6	105	3.5	106	3.5	105	4	98	116	
DE-2-164-69-2008	DE-2-503	3	106		100		94		91		84	123	
DE-2-164-70-2008	DE-2-503	3	92		96		106		109		92	83*	
DE-2-164-71-2008-K	DE-2-503	3	100		102		107		108		96	94	
DE-2-164-72-2008	DE-2-503	3	106		97		106		106		85	113*	
DE-2-164-73-2008-K	DE-2-503	3	100		103		107		109		106	91	

Only one Varroa trait was recorded